

Kate Hauer Air Specialist

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April 29, 2010

Carey Bylin
Natural Gas Star Program
U.S. Environmental Protection Agency
1200 Pennsylvania Ave., NW (MC6207-J)
Washington, DC 20460

Dear Ms. Bylin,

Please find enclosed the 2009 Annual Report for Chevron North America Exploration and Production Company's MidContinent/Alaska Business Unit.

If you have any questions, please do not hesitate to contact me at the telephone number and e-mail address above.

Sincerely,

Katherine Hauer

Enclosure

Chevron has been a participant in the Natural Gas STAR program since 1995. The program is a voluntary partnership between the EPA and the oil and gas industry to encourage methane emissions reductions among natural gas producers, processors, and transmission companies. As a partner, Chevron is required to annually report our methane emissions reductions. Below is a summary of the 2009 MCA results, collected through collaboration with Energy Management, HES Specialists, and a review of the MCA capital project list.

Projects		Methane Reductions ¹		\$ Spent	Value of Gas Saved ²
8	Flares	16.0	MMCF	\$282,873	\$112,000
63	Plunger Lifts	296.1	MMCF	\$1,515,026	\$2,072,700
82	Pumping Units	79.8	MMCF	\$4,287,566	\$558,502
26	Velocity Strings	121.7	MMCF	\$184,805	\$851,760
6	Electric Compressor	24.8	MMCF	\$5,158,330	\$173,548
4	Soap Units	10.1	MMCF	\$15,535	\$70,560
13	Ignition Systems to Comp.	9.9	MMCF	\$780,000	\$68,978
1	VRUs	0.4	MMCF	\$96,948	\$2,660
203	TOTAL	558.7	MMCF	\$12,321,080	\$3,910,704

^{1.} Most methane reductions are calculated using emissions factors provided by the EPA NG STAR program

Gas value based on \$7/mcf

Company Information

Annual Report 2009



Production Sector

Company Name: Chevron North America Exploration and

Production Company

MidContinent/Alaska Business Unit

Gas STAR Contact: Kate Hauer

Title: Air Specialist

Address: PO Box 36366

Rm. C-2403

City, State, Zip Code: Houston, TX 77236

Telephone: (281) 561 - 3830

Fax: (281) 561 - 7204

E-mail: katehauer@chevron.com

Annual Report Summary

Period covered by report:

From:

Jan 09

To: Dec 09

Signature:

Leitherme Hauer

Date:

april 28, 2010

- Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.
- In addition to reporting methane emissions reductions, you are welcome to include other information about your company's participation in Natural Gas STAR in the "Additional Program Accomplishments" section of this form. The Natural Gas STAR Program will use any information entered in this section to recognize the efforts and accomplishments of outstanding partners.



OMB Control No. 2060-0328

Partner Reported Opportunities (PROs)

(For more details on PROs, visit ena gov/gasstar/technrac.htm)

A. Facility/location identifier information: Chevron MidC	ontinent/Alaska Business Unit		
B. Activity description: Please provide a separate PRO activity, please use a separate page for each location/f	reporting form for <u>each</u> activity reported. If reporting a DI&M acility surveyed.		
Please specify the technology or practice that was impleme (choose from the list in the appendix or describe your own) Install Flares			
C. Level of Implementation (check one): Number of units installed: 8 units Frequency of practice: If Multi-year: Partner will report this activity once and le automatically calculate future emission reduction. Partner will report this activity annually up sunset date.			
E. Methane emissions reduction: 16000 Mcf	F. Cost summary: Estimated cost of implementing this practice/activity (including equipment and labor): \$ 282,873		
Please identify the basis for the emissions reduction	estimate, using the space provided to show any calculations		
Actual field measurement	Other (please specify): PRO Reported Savings		
Calculation using manufacturer specifications/other sou	ce		
For assistance quantifying the methane emission reductions achieved Emission Reduction Quantification Reference Guide, available or epa.gov/gasstar/docs/quantifying_ngs_methane_reductions.xls.	eved by a particular technology or practice, please refer to the Gas STAR the Gas STAR Web site at:		
G. Total value of gas saved: \$\frac{112,000}{}\$ Total value of gas saved = Methane emissions reduction (in Mcf) x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]	H. To what extent do you expect to implement this practice next year?		
Previous	Years' Activities		
Use the table below to report any past implementation	n of this PRO, but <u>not previously reported</u> to Natural Gas STAR		
Year Frequency of Total Cost of Practice/Activity or # (incl. equipment of Installations			

PRO Comments: Please use the back of the page for additional space if needed.

^{*} Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



OMB Control No. 2060-0328

	Partner Reported Op For more details on PROs, visit			2 6
	Current Yea	r Activiti	es	
A. Facility/location identifier in	formation: Chevron MidContine	nt/Alaska Bus	siness Unit	
B. Activity description: Please activity, please use a separate	provide a separate PRO report page for each location/facility	ting form for	each activity reported. If re	porting a DI&M
Please specify the technology or (choose from the list in the appen Install Plunger Lifts		Please des	scribe how your company impl	emented this
C. Level of Implementation (check one): Number of units installed: 63 units Frequency of practice: Units Units Frequency of practice: Units				Multi-year e and let EPA on reductions based
E. Methane emissions reductio	n: 296,100 Mcf		mmary: Estimated cost of im/ /activity (including equipment and	
Please identify the basis for	the emissions reduction estin	nate, using	the space provided to show	any calculations
Actual field measurement		Othe	r (please specify): PRO Report	ted Savings
☐ Calculation using manufacture	er specifications/other source			
For assistance quantifying the metha Emission Reduction Quantification R epa.gov/gasstar/docs/quantifying_ng	eference Guide, available on the Ga	a particular te as STAR Web	echnology or practice, please refer site at:	r to the Gas STAR
G. Total value of gas saved:	\$ <u>2,072,</u> 700	H. To wha	t extent do you expect to imp	plement this
Total value of gas saved = Methane x Gas value (in \$/Mcf) [If not known,		practic	e next year?	
	Previous Yea	rs' Activ	ties	
Use the table below to repo	ort any past implementation of th	is PRO, but	not previously reported to Natu	ıral Gas STAR
Year Frequency of Practice/Activity o of Installations	Practice/Activity or # (incl. equipment and		Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)
PRO Comments: Please use th	e back of the page for additional	enace if no	l ded	

PRO Comments: Please use the back of the page for additional space if needed.

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	rtner Reported Opnore details on PROs, visit			
	Current Yea	r Activiti	es	
A. Facility/location identifier information	tion: Chevron MidContine	nt/Alaska Bus	iness Unit	
B. Activity description: Please provi activity, please use a separate page	de a separate PRO report for each location/facility	ting form for surveyed.	each activity reported. If r	eporting a DI&M
Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own): Install Pumping Units Please describe how your company implemented activity:				
C. Level of Implementation (check one): Number of units installed: 82 units Frequency of practice: units times/year Multi-year reductions a one-year reduction of multi-year reduction? □ One-year ⋈ Multi-year: Partner will report this activity once and let EPA automatically calculate future emission reductions on sunset date duration*. Partner will report this activity annually up to all sunset date.				Multi-year Multi-year
E. Methane emissions reduction: 79	,800 Mcf		mmary: Estimated cost of in activity (including equipment a	
Please identify the basis for the	emissions reduction estin	nate, using t	he space provided to show	v any calculations
Actual field measurement		Other	(please specify): PRO Repo	orted Savings
Calculation using manufacturer specific assistance quantifying the methane ememission Reduction Quantification Reference pa.gov/gasstar/docs/quantifying_ngs_metals.	nission reductions achieved by ace Guide, available on the Ga	a particular te as STAR Web	echnology or practice, please rel site at:	fer to the Gas STAR
	8,502		t extent do you expect to in	nplement this
Total value of gas saved = Methane emissic x Gas value (in \$/Mcf) [If not known, use do		practice	e next year?	
	Previous Yea	rs' Activi	ties	
Use the table below to report an	y past implementation of th	is PRO, but <u>I</u>	not previously reported to Na	tural Gas STAR
Year Frequency of Practice/Activity or # of Installations	Total Cost of Practice (incl. equipment and I		Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)
PRO Comments: Please use the had	L of the man for a day.			

^{*} Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



OMB Control No. 2060-0328

		tner Reported Op ore details on PROs, visit			
		Current Yea	r Activiti	es	
A. Facility/location id	dentifier informat	ion: Chevron MidContiner	nt/Alaska Bus	iness Unit	
B. Activity description activity, please use a	on: Please provid a separate page f	e a separate PRO report or each location/facility	ing form for surveyed.	each activity reported. If re	eporting a DI&M
Please specify the tec (choose from the list in Install Velocity Tul	n the appendix or	e that was implemented describe your own):	Please des activity:	scribe how your company imp	lemented this
C. Level of implement Number of un Frequency of	nits installed: 26	units times/year	multi-year If Multi-yea ⊠ Part automa on suns	tner will report this activity one atically calculate future emissi set date duration*. tner will report this activity and	Multi-year ce and let EPA on reductions based
E. Methane emission	ns reduction: 121,	700 Mcf	F. Cost su	mmary: Estimated cost of in /activity (including equipment ar	
Please identify th	e basis for the er	missions reduction estin	nate, using t	he space provided to show	any calculations
Actual field measur	rement		Other	(please specify): PRO Repo	rted Savings
☐ Calculation using n	manufacturer spec	ifications/other source			
For assistance quantifyin Emission Reduction Qua epa.gov/gasstar/docs/qu	antification Referenc	e Guide, available on the Ga	a particular te s STAR Web	echnology or practice, please refe site at:	er to the Gas STAR
G. Total value of gas saved: \$851,760 Total value of gas saved = Methane emissions reduction (in Mcf) x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf] H. To what extent do you expect to implement this practice next year?				plement this	
		Previous Year	rs' Activi	ties	
Use the table be	elow to report any	past implementation of th	is PRO, but <u>ı</u>	not previously reported to Nat	ural Gas STAR
Practice	quency of e/Activity or # stallations	Total Cost of Practice/Activity (incl. equipment and labor) (\$		Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)
PRO Comments: Ple	ease use the back	of the page for additional	space if nee	ded.	

* Recause the implementation of some technologies reduces emissions for multiple years. C

^{*} Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



OMB Control No. 2060-0328

Partner Reported Opportunities (PROs)

	(For m	ore details on PROs, visit	epa.gov/gas	star/techprac.htm)	
		Current Yea	r Activiti	es	
A. Facilit	y/location identifier informa	tion: Chevron MidContine	nt/Alaska Bus	siness Unit	
B. Activit	ty description: Please provid please use a separate page	le a separate PRO repor for each location/facility	ting form for	r <u>each</u> activity reported. If re	eporting a DI&M
(choose f	pecify the technology or praction from the list in the appendix or lelectric compressors		Please des activity:	scribe how your company imp	plemented this
	of Implementation (check one Number of units installed: 6 Frequency of practice:		If Multi-year If Multi-year Part automa	tner will report this activity on atically calculate future emiss set date duration*. tner will report this activity an	Multi-year Multi-year ce and let EPA ion reductions based ion reduction
E. Metha	ne emissions reduction:	24793 Mcf		mmary: Estimated cost of in /activity (including equipment a	
Pleas	e identify the basis for the e	missions reduction estir	nate, using t	the space provided to show	any calculations
☐ Actual	field measurement		Other Other In the content of the	r (please specify): PRO Repo	rted Savings
☐ Calcul	ation using manufacturer spec	cifications/other source			
Emission I	ance quantifying the methane em Reduction Quantification Reference asstar/docs/quantifying_ngs_meth	ce Guide, available on the Ga	⁄ a particular te as STAR Web	echnology or practice, please ref site at:	er to the Gas STAR
Total v	value of gas saved: \$ 173 alue of gas saved = Methane emission value (in \$/Mcf) [If not known, use de	ns reduction (in Mcf)		t extent do you expect to in e next year?	nplement this
		Previous Yea	rs' Activi	ities	
Use	e the table below to report any	past implementation of th	nis PRO, but	not previously reported to Na	tural Gas STAR
Year	Frequency of Practice/Activity or # of Installations	Total Cost of Practice (incl. equipment and		Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)
PRO Cor	nments: Please use the back	of the page for additional	space if nee	ded	

^{*} Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



Partner Reported O (For more details on PROs, vis	pportunities (PROs) it epa.gov/gasstar/techprac.htm)		
Current Ye	ar Activities		
A. Facility/location identifier information: Chevron MidContin	ent/Alaska Business Unit		
B. Activity description: Please provide a separate PRO repo activity, please use a separate page for each location/facilit	rting form for <u>each</u> activity reported. If reporting a DI&M y surveyed.		
Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own): Install soap launchers/soap units	Please describe how your company implemented this activity:		
C. Level of Implementation (check one): Number of units installed:4 units Frequency of practice: times/year	E. Are emissions reductions a one-year reduction or a multi-year reduction? One-year Multi-year If Multi-year: Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*. Partner will report this activity annually up to allowed sunset date.		
E. Methane emissions reduction: 10,080 Mcf	F. Cost summary: Estimated cost of implementing this practice/activity (including equipment and labor): \$ 15,535		
Please identify the basis for the emissions reduction est	imate, using the space provided to show any calculations		
Actual field measurement	☑ Other (please specify): PRO Reported Savings		
☐ Calculation using manufacturer specifications/other source			
For assistance quantifying the methane emission reductions achieved a Emission Reduction Quantification Reference Guide, available on the Co epa.gov/gasstar/docs/quantifying_ngs_methane_reductions.xls.	by a particular technology or practice, please refer to the Gas STAR Gas STAR Web site at:		
G. Total value of gas saved: \$70,560	H. To what extent do you expect to implement this		
Total value of gas saved = Methane emissions reduction (in Mcf) x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]	practice next year?		
Previous Yea	ars' Activities		
Use the table below to report any past implementation of	this PRO, but not previously reported to Natural Gas STAR		
Year Frequency of Total Cost of Practice Practice/Activity or # (incl. equipment and of Installations			
PRO Comments: Please use the back of the page for additional	al space if needed.		

^{*} Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



Partner Reported (For more details on PROs, v	Opportunit	ties (PROs) star/techprac.htm)		
Current Y	ear Activiti	es		
A. Facility/location identifier information: Chevron MidConf	tinent/Alaska Bus	siness Unit		
B. Activity description: Please provide a separate PRO reactivity, please use a separate page for each location/faci	porting form fo	r <u>each</u> activity reported. If re	porting a DI&M	
Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own): Ignition Systems added onto existing Compressors Please describe how your company implemented this activity:				
C. Level of Implementation (check one): Number of units installed: 13 units times/year	E. Are emissions reductions a one-year reduction or a multi-year reduction? One-year Multi-year If Multi-year: Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*. Partner will report this activity annually up to allowed sunset date.			
E. Methane emissions reduction: 9,900 Mcf		mmary: Estimated cost of im /activity (including equipment an		
Please identify the basis for the emissions reduction e	stimate, using	the space provided to show	any calculations	
Actual field measurement	Othe	r (<i>please specify):</i> PRO Repor	ted Savings	
Calculation using manufacturer specifications/other source				
For assistance quantifying the methane emission reductions achieved Emission Reduction Quantification Reference Guide, available on the epa.gov/gasstar/docs/quantifying_ngs_methane_reductions.xls.	d by a particular te e Gas STAR Web	echnology or practice, please refe site at:	r to the Gas STAR	
G. Total value of gas saved: \$ 68,978 Total value of gas saved = Methane emissions reduction (in Mcf) x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]		t extent do you expect to im e next year?	plement this	
Previous Yo	ears' Activi	ities		
Use the table below to report any past implementation of	of this PRO, but	not previously reported to Natu	ıral Gas STAR	
Year Frequency of Total Cost of Practice/Activity or # (incl. equipment at of Installations		Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)	
PRO Comments: Please use the back of the page for addition	unal space if nee	dod		

^{*} Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



-75.57					
1)	Pa (For	artner Reported Opmore details on PROs, visit	pportunit t epa.gov/gas	ties (PROs) star/techprac.htm)	i.
		Current Yea	ar Activit	ies	
A. Facili	ty/location identifier inform	ation: Chevron MidContine	ent/Alaska Bu	siness Unit	
B. Activiactivity,	ity description: Please prov please use a separate page	ide a separate PRO report for each location/facility	ting form fo surveyed.	r <u>each</u> activity reported.	If reporting a DI&M
(choose	pecify the technology or pract from the list in the appendix o II VRUs on crude oil storage t	r describe your own):	Please de activity:	scribe how your company	implemented this
\boxtimes	of Implementation (check on Number of units installed: Frequency of practice:	(a)	If Multi-year If Multi-ye Par automa	tner will report this activity atically calculate future en set date duration*. tner will report this activity	ear Multi-year once and let EPA nission reductions based
E. Metha	ne emissions reduction: 38	0 Mcf	F. Cost su	mmary: Estimated cost of activity (including equipme	of implementing this nt and labor): \$ 96,948
Pleas	e identify the basis for the e	emissions reduction estin	mate, using	the space provided to sl	how any calculations
☐ Actua	I field measurement		Othe	r (please specify): PRO R	eported Savings
For assista	lation using manufacturer spe ance quantifying the methane em Reduction Quantification Referen asstar/docs/quantifying_ngs_met	nission reductions achieved by ace Guide, available on the Ga	/ a particular te as STAR Web	echnology or practice, please site at:	e refer to the Gas STAR
Total v	value of gas saved: \$ 2,6 value of gas saved = Methane emission value (in \$/Mcf) [If not known, use de	ons reduction (in Mcf)		t extent do you expect to e next year?	implement this
		Previous Yea	rs' Activi	ties	N 1/2 1 1 1
Us	e the table below to report an	y past implementation of th	nis PRO, but <u>i</u>	not previously reported to	Natural Gas STAR
Year Frequency of Total Cost of Practice Practice/Activity or # (incl. equipment and I of Installations		/Activity	Estimated Reduction (Mcf/yr)		
			244		
PRO Cor	mments: Please use the back	k of the page for additional	space if nee	ded.	

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